

GAMBELL AIRPORT





2004 Alaska Airport Pavement Condition Report

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GAMBELL AIRPORT - 2004

Contents:

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey PCI Sample Unit Layout Plan
- PCI maps showing predicted pavement conditions
- Age map showing pavement age as of January 2004
- A Branch PCI Condition Report
- A Section PCI Condition Report

Airport Information:

• Location:

Gambell is located on the northwest tip of Saint Lawrence Island in the Bering Sea, approximately 190 miles east south east of Nome. The airport is located on a narrow sand-gravel spit just south of the village. The Bering Sea borders the west side of the runway and Troutman Lake borders it on the east.

• District: Western District of the Northern Region

Airport Manager: Jerry Oliver
 District Maintenance Manager: Patrick Kelliher
 Pavement Surface: Asphalt Concrete

Last Pavement Construction: 1999

• Pavement layout: Runway 16-34, Taxiway A and Apron.

• Design Aircraft: DC-6

• 2003 Enplanements: 3,743 – a 40% increase from 2002

• Airport Class: Non-Primary

• Last pavement condition survey: 2002

Next planned pavement condition survey: 2005

- 2004 reported pavement maintenance and/or changed conditions: Needs crack sealing, but not done
 this year. It requires a fairly major mobilization to bring crack sealing equipment, personnel and
 manpower to do.
- Recommendations: Seal cracks that are over ¼" wide and patch with cold mix as needed to maintain serviceability. Get a crew, materials and equipment there is 2005 to seal the cracks and patch.

Branch Condition Report

Pavement Database: NetworkID: Gambell

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Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
100 (Taxiway A)	2	1,069.00	50.00	58,434.00	TAXIWAY	50.00	16.00	60.42
4100 (Apron)	1	292.00	200.00	61,200.00	APRON	77.00	0.00	77.00
6100 (RUNWAY 16-34)	2	4,532.00	100.00	453,200.01	RUNWAY	44.50	0.50	44.33

Branch Condition Report

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Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	1	61,200.00	77.00	0.00	77.00
RUNWAY	2	453,200.01	44.50	0.50	44.33
TAXIWAY	2	58,434.00	50.00	16.00	60.42
All	5	572,834.01	53.20	15.82	49.46

Section Condition Report

Pavement Database:

Page 1 of 2 NetworkID: Gambell

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
100 (Taxiway A)	100-01	08/01/1985	AC	TAXIWAY	Р	0	10,184.00	07/17/2002	17	34.00
100 (Taxiway A)	100-02	08/01/1999	AC	TAXIWAY	Р	0	48,250.00	07/17/2002	3	66.00
4100 (Apron)	4100-01	08/01/1999	AC	APRON	Р	0	61,200.00	07/17/2002	3	77.00
6100 (RUNWAY 16-34)	6100-01	08/15/1985	AAC	RUNWAY	Р	0	305,000.01	07/17/2002	17	44.00
6100 (RUNWAY 16-34)	6100-02	08/15/1985	AAC	RUNWAY	Р	0	148,200.00	07/17/2002	17	45.00

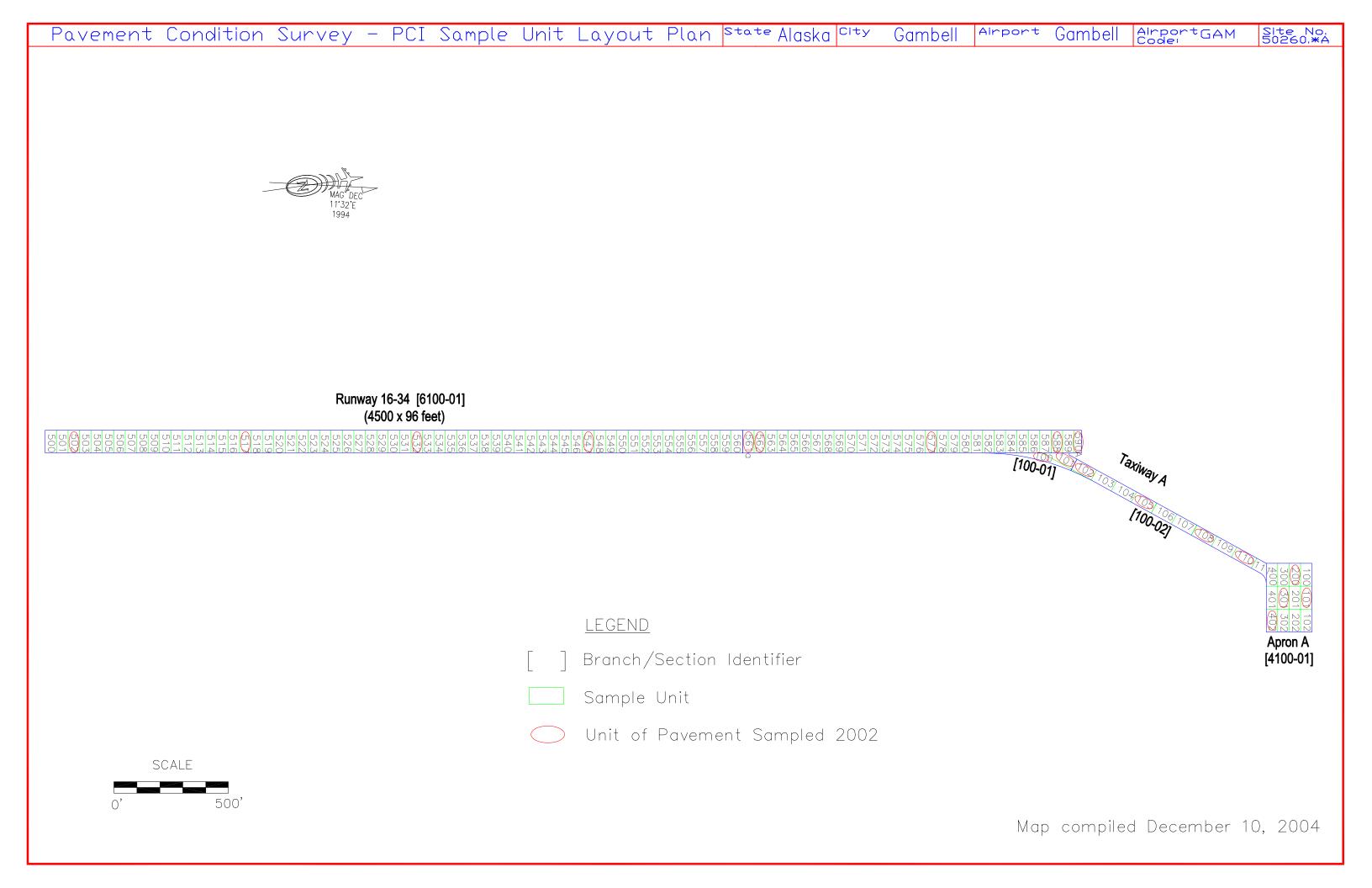
Section Condition Report

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Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI	
03-05	3.00	109,450.00	2	71.50	5.50	72.15	
16-20	17.00	463,384.01	3	41.00	4.97	44.10	
All	11.40	572,834.01	5	53.20	15.82	49.46	

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STATE Alaska				AIRPORT	Gambell				This is a variation of FAA Form 5320-1-1 Base Surface			1	
		CONSTRUCTION	TION DATES	CONSTRUCTION	SOURCE OF	Existing Pavement Conditions (PCI)	SOIL	Subbase Course	Course	Surface Course	Overlay	Pavement Strength	
IDENT.	NAME	ORIG.	OVERLAY	AGENCY	INFORMATION								
						RUNWAYS							
6100-01	Runway 16-34, south end	1985	1999	AK DOT & PF	AIP No. 3-02-0103-03	44	FG-2	Borrow Embankment	6" Crushed	2" Asphalt Conc.	Bit. Seal Coat	S30	
6100-02	Runway 16-34, north end	1985	1999	AK DOT & PF	AIP No. 3-02-0103-03	45	FG-2	Borrow Embankment	6" Crushed	2" Asphalt Conc.		S30	
						TAXIWAYS							
100-01	Taxiway A (old Apron)	1999		AK DOT & PF	AIP No. 3-02-0103-03	34	FG-2	Borrow Embankment	6" Crushed	2" Asphalt Conc.		S30	
100-02	Taxiway A	1999		AK DOT & PF	AIP No. 3-02-0103-03	66	FG-2	Borrow Embankment	6" Crushed	Bit. Seal Coat		S30	
						APRONS							
4100-01	Apron	1999		AK DOT & PF	AIP No. 3-02-0103-03	77	FG-2	Borrow Embankment	6" Crushed	2" Asphalt Conc.		S30	
REMARKS:				Ī.,									
≺unway Section 61	100-01 has should	er widening an	id a Seal Coat o	n the widened should	iers in 1999				+				
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									+			+	
		7/47/0000		Evaluated D:::								DACE :	
Last Site Inspectior	1:	7/17/2002		Evaluated By:	R. S. Gartin, P.E.	1/13/2003		1				PAGE 1 o	



Pavement Surface Age 2004

